

#### Utah Division of Air Quality New Source Review Section

Date:		 	
Compar	ny:		
Site/So	urce		

# Form 12 Incinerator

	General Info	rmation
1.	Attach process diagrams of the incinerators described or	this form
2.	Describe the source of waste:	
3.	Manufacturer of incinerator: 4.	Model name and number:
5.	? Flue ? Single Chamber 6. ? Multiple Chamber	Maximum amount of waste to be incinerated:lb/hr
7.	Estimated daily amount of waste to be incinerated:lb	Height of stack above grade:ft
9.	Height of tallest structures within 150 feet: 10.	Primary burner used: ? Yes ? No Maximum rating BTU/hr
11.	. Secondary Burner used: ? Yes ? No Maximum r	atingBTU/hr
	Description of Typical Wa	ste to Be Incinerated
12.	10% moisture, 5% incombustible ? Type 1 Rubbish with 6,500 BTU/lb	
	25% moisture, 10% incombustible ? Type 2 Refuse with 4,300 BTU/lb 50% moisture, 7% incombustible	
	<ul> <li>? Type 3 Garbage with 2,500 BTU/lb         70% moisture, 5% incombustible</li> <li>? Type 4 Human and animal parts, with 1,000 BTU/lb         85% moisture, 5% incombustible</li> </ul>	
	? Type 5 Industrial by-product wastes which are gase	ous, liquid, & semi-liquid
	? Type 6 Industrial solid byproduct waste rubber, plastic, wood wastes	
	? Type 7 Municipal sewage sludge wastes residue fro	m processing of raw sludge

## Incinerator Form 12 (Continued)

					Oper	ational Informa	ation			
13.	Average	e operation t	time of incir	erator:		hrs/day		days/week	,	weeks/year
14.	Maximu	m operation	n time of inc	inerator:		hrs/day		days/we	ek	weeks/year
15.	Average	e Temperatu	ıre: Prima	ary	°F	Secondary		°F		
16.	Resider	nce time: P	rimary:	sec	onds		Seco	ndary:	seconds	
17.	Type of	feed: ?	Manual	? Ram		? Other				
18.	? Que ? Hea ? Dry ? Wet	ench Tower at Exchange	er attach DAQ (attach [		9)	ology):				
					Em	ission Informat	ion			
19.	Number	of identical	l sources (c	escribe)						
20.	Averag	e Operatio	on							
Conte	ent	Concentra	ation or emi	ssion rate	per id	entical source		Method us emission r		nine concentration or
partic matte				gr/dscf		? lb/10 <sup>6</sup> ? lb/hr	BTU			
carbo			þt	om (vol)		? lb/10 <sup>6</sup> ? lb/hr	BTU			
nitrog oxide			bt	om (vol)		? lb/10 <sup>6</sup> ? lb/hr	BTU			
orgar comp	nic oounds		þt	om (vol)		? lb/10 <sup>6</sup> ? lb/hr	BTU			
sulfur doxid			þt	om (vol)		? lb/10 <sup>6</sup> ? lb/hr	BTU			

## Incinerator Form 12 (Continued)

	<u> </u>	Maximum	Operation			
Contaminant	Concentration or Emission Rate per Identica Source			Method Used to Determine Concentration Emission Rate	ı or	
particulate matter	gr/dscf ? lb/10 <sup>6</sup> BTU ? lb/hr					
carbon monoxide	ppm (vol)	? lb/10 <sup>6</sup> BTU ? lb/hr				
nitrogen oxides	ppm (vol)	? lb/10 <sup>6</sup> BTU ? lb/hr				
organic compounds	ppm (vol)	? lb/10 <sup>6</sup> BTU ? lb/hr				
sulfur dioxide	ppm (vol)	? lb/10 <sup>6</sup> BTU ? lb/hr				
	Metals (	(Maximum	Operation	)(lb/hr)		
arsenic			manganese			
barium			mercury			
cadmium			nickel			
hexavalent chromium			selenium			
total chromium			silver			
copper		tin				
lead		dioxins/furans				
21. Exhaust Point Ir	nformation					
Flow diagram designat	ion(s) of exhaust point(s):					
Description of exhaust	point (location in relation to	buildings,	direction, ho	ooding, etc.):		
Exhaust height above grade:			Exhaust diameter:			
Greatest height of nearby buildings: ft			Exhaust distance from nearest plant boundary:			
Ave	erage Operation			Maximum Operation		
Exhaust gas temperatu	ure:		Exhaust gas temperature:			
Gas flow rate through each exhaust point:			Gas flow rate through each exhaust point:			

NOTE: 1. Submit this form in conjunction with Form 1 and Form 2.

2. Call the Division of Air Quality (DAQ) at **(801) 536-4000** if you have problems or questions in filling out this form. Ask to speak with a New Source Review engineer. We will be glad to help!

#### Incinerator Form 12 (continued)

#### Instructions

- 1. Attach flow diagram of the described incinerator.
- 2. Please describe the source of waste to be incinerated.
- 3. Supply the name of the manufacturer of the incinerator.
- 4. Supply the model and number of the incinerator.
- 5. Indicate the type of incinerator.
- 6. Specify the maximum amount of waste to be incinerated.
- 7. Specify the daily amount of waste to be incinerated.
- 8. Indicate the height of the stack above ground level.
- 9. Indicate the height of tallest structure within 150 feet.
- 10. Supply the specifications for primary burner used.
- 11. Supply the specifications for secondary burner used.
- 12. Indicate the type of typical waste to be incinerated.
- 13. Supply the average operation time of the incinerator.
- 14. Supply the maximum operation time of the incinerator.
- 15. Suuply the average temperature in the primary and secondary chambers.
- 16. Supply the residence time in the primary and secondary chambers.
- 17. Indicate what type of feed is used to load the incinerator.
- 18. Indicate the control technology to be use. Submit the corresponding form, if available, for the control technology. Submit specifications for control technology which a form is not available for. Forms available are the following:
  - Form 3 Afterburners
  - Form 4 Flares
  - Form 5 Adsorption Unit
  - Form 6 Cyclone
  - Form 7 Condenser
  - Form 8 Electrostatic Precipitators
  - Form 9 Scrubber
  - Form 10 Fabric Filter
- 19. Indicate how many incinerators units are being used.
- 20. Specify the concentration or emission rate of the listed contaminants for both the average and maximum feed rate.
- 21. Supply the exhaust specifications listed.

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